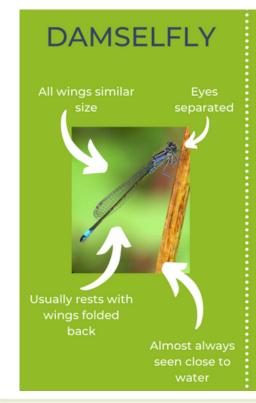


Odonata includes DRAGONFLIES and DAMSELFLIES. Within the UK there are around 30 dragonfly species and approximately 20 species of damselfly. The name 'Odonata' means 'toothed jaw' – they have biting mouthparts for catching invertebrate prey and are brilliant hunters. They are large, colourful insects and often show sexual dimorphism (males look different to females).





Damselflies: are more 'dainty' looking, and are weaker fliers. Their wings are usually folded back along their body when resting.

Dragonflies: are more 'chunky' and are stronger fliers. Their hind wings are shorter than their front wings and they hold them flat when resting. We hold a total of 6034 odonata records since 2010 representing 43 different species. This makes it our 5th most recorded insect order.

DIPTERA includes all 'True Flies'. It's one of the largest orders, with around 7000 species in the UK alone, making up ~100 different families! These species are incredibly diverse, from colourful hoverflies to long-legged craneflies. To know that you've spotted a true fly, look out for these typical features: <a href="#">1</a> pair of wings. Almost all

- other insects have 2 pairs although these aren't always easy to see
- ✓ Halteres. These replace the hind-wings in flies, they look like lollipops and help with flying. Often you'll need to look closely to see these.
- ✓ Large eyes. Other similar looking insects (like bees + wasps) tend to have smaller eyes



Large Eyes

1 pair of wings

Marker Brown and before the Article Andrews (Article Andrews Article A





Photos (c) Steve McWillian



## INSECT ORDER OF THE DAY

## **ORTHOPTERA FEATURES**

normally short in grasshoppers and long in crickets

Stridulate (make noise by rubbing 2 body parts together)



for jumping

wings

pairs of

are often
thick
covers for
the more
delicate
hindwings

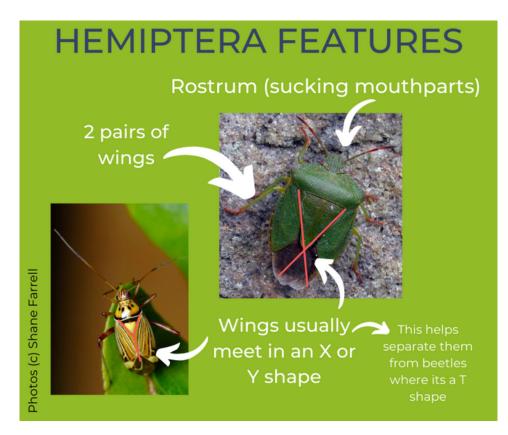
Photo (c) Patrick Clement

**ORTHOPTERA** includes Grasshoppers and Crickets. The main feature to look out for to know that you've spotted a member of this order is the long back legs. These legs include powerful jumping muscles, allowing them to hop long distances. You may have heard them 'stridulating' (the classic grasshopper noise!). Both males and females do this, but males are often better at it. In grasshoppers, 'pegs' on their back legs and these are rubbed against their wings to make the sound. It plays and important role in courtship and is sometimes combined with dancing!

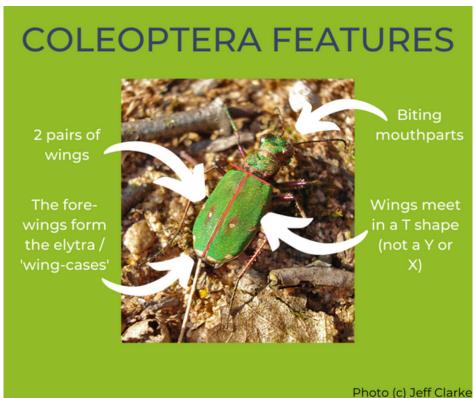
Orthopteran species can often be identified by looking closely at colours and patterns. Out of a total of 33 UK species hold records of 13 of these since 2010; a total of 278 records.

vára, a, a hrahalan ra hada ar a, a, a, a, a, a, a, a, ahrára, a, a, a hrahalan arhada ar a, a, a, a, a, bhdhláran an mhu

Often people refer to any type of invertebrate as a 'bug'. But did you know that there are a group of insects called 'TRUE BUGS' or HEMIPTERA? Around 2000 species from this group are found in the UK, including insects you might often see in your garden like the impressive shield bugs; froghoppers (which make cuckoospit); pond skaters and many more. The mouthparts of insects in this order are elongated and form a 'rostrum'. This is like a tube, which is often used to pierce plant stems and suck liquids from within for food. We hold 4787 hempitera records of 301 species from the last 10 years.

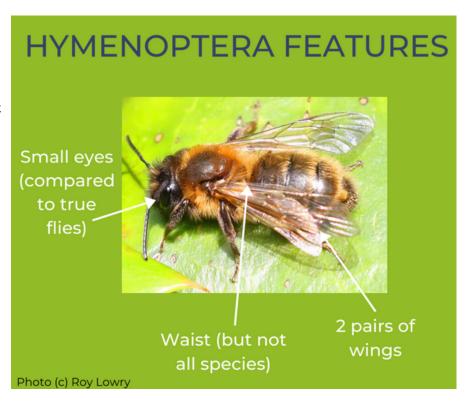






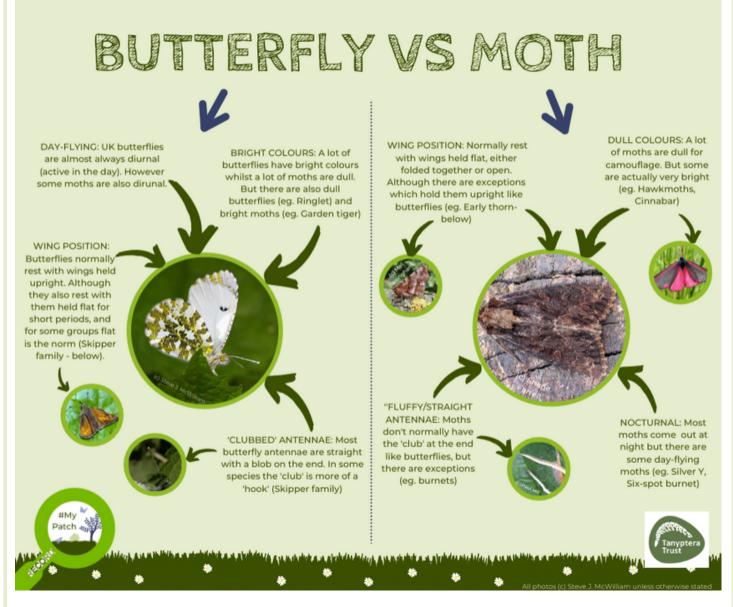
COLEOPTERA (BEETLES) is the world's largest insect order comprising an impressive 350,000 species! About 4000 of these are found in the UK. Look out for elytra (wing cases) which are often shiny and colourful. Many beetles are predators and have biting mouthparts to catch their prey. They are holometabolous, undergoing complete metamorphosis: egg -->larva-->pupa-->adult . This is a really diverse group and includes familiar groups like ladybirds in addition to lesser known species. We have a total of 10982 Coleoptera records since 2010, representing 760 different species!

There are around 6700 UK species from the order HYMENOPTERA. This diverse insect group includes wellknown groups like bees, wasps and ants as well as many parasitic wasps and sawflies. To tell members of this group apart from other similar groups look out for 2 pairs of wings, biting mouthparts and prominent antennae. Apart from sawflies, they also have a thin 'waist' between their thorax and abdomen. Species in this group show an amazing range of lifestyles from eusocial species like honeybees to parasites and parasitoids including gallforming wasps, 'cuckoos' etc. We hold 11300 records since 2010 making this our 3rd most recorded insect order. This includes records of 421 different species.



marker as an interest of the Assacrate o





LEPIDOPTERA is made up of moths and butterflies with a total of 160,000 species worldwide and around 2570 in the UK. Species in this order have scales on their wings and many have a proboscis as adults (a tubular mouthpart used to suck liquids). In the UK there are only 59 species of butterfly but over 2500 moths! Take a look below for some tips on telling them apart. Lepidoptera is by far our most recorded insect group with a total of 131842 records of 986 species in the last 10 years.

Find out more about these insect orders:

ODONATA: <a href="https://british-dragonflies.org.uk/">https://british-dragonflies.org.uk/</a>

DIPTERA: <a href="https://www.dipterists.org.uk/">https://www.dipterists.org.uk/</a>

ORTHOPTERA: <a href="https://www.orthoptera.org.uk/about\_orthoptera">https://www.orthoptera.org.uk/about\_orthoptera</a>

HEMIPTERA: <a href="https://www.britishbugs.org.uk/">https://www.britishbugs.org.uk/</a> COLEOPTERA: <a href="https://www.coleoptera.org.uk/">https://www.coleoptera.org.uk/</a>

HYMENOPTERA: <a href="https://www.amentsoc.org/insects/fact-files/orders/hymenoptera.html">https://www.amentsoc.org/insects/fact-files/orders/hymenoptera.html</a>

LEPIDOPTERA: https://butterfly-conservation.org/

Let us know what you've found:

www.record-lrc.co.uk/c2.aspx?Mod=Article&ArticleID=MyPatch\_Spotted

<u>ac, ac i di sebabi di deselen, ac, ac i di bebi del ac, ac, ac, i al a A.A. a a bada el ac, ac, ac</u>